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L2: Entry 1 of 2

File: JPAB

Dec 11, 1985

PUB-NO: JP360250557A

DOCUMENT-IDENTIFIER: JP 60250557 A

TITLE: ENCLOSED TYPE ALKALINE STORAGE BATTERY

PUBN-DATE: December 11, 1985

INVENTOR-INFORMATION:

NAME

YANAGIHARA, NOBUYUKI

KAWANO, HIROSHI

IKOMA, MUNEHISA

URAO, KOJI

COUNTRY

ASSIGNEE-INFORMATION:

NAME

MATSUSHITA ELECTRIC IND CO LTD

COUNTRY

APPL-NO: JP59105816

APPL-DATE: May 25, 1984

US-CL-CURRENT: 429/206; 429/223

INT-CL (IPC): H01M 4/38; C22C 30/00

ABSTRACT:

PURPOSE: To obtain a battery having little rise of its inner pressure due to an overcharge by using a negative electrode made of a hydrogen-occluding alloy expressed by an equation $\text{LaNi}_x\text{Co}_y\text{M}_z$ with X, Y, Z specified.

CONSTITUTION: A negative electrode is made of a hydrogen-occluding alloy expressed by an equation $\text{LaNi}_x\text{Co}_y\text{M}_z$, a positive electrode is arranged via a separator to form a closed structure together with an alkaline electrolyte, where 1.5

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☐ 2. Document ID: JP 60250557 A

L2: Entry 2 of 2

File: DWPI

Dec 11, 1985

DERWENT-ACC-NO: 1986-031050

DERWENT-WEEK: 198605

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TITLE: Closed alkali storage battery - includes negative electrode comprising alloy

contg. lanthanum, nickel, cobalt, etc.

PATENT-ASSIGNEE:

ASSIGNEE

MATSUSHITA ELEC IND CO LTD

CODE

MATU

PRIORITY-DATA: 1984JP-0105816 (May 25, 1984)

PATENT-FAMILY:

PUB-NO

JP 60250557 A

PUB-DATE

December 11, 1985

LANGUAGE

PAGES

003

MAIN-IPC

APPLICATION-DATA:

PUB-NO

JP 60250557A

APPL-DATE

May 25, 1984

APPL-NO

1984JP-0105816

DESCRIPTOR

INT-CL (IPC): C22C 30/00; H01M 4/38

ABSTRACTED-PUB-NO: JP 60250557A

BASIC-ABSTRACT:

The battery (1) comprises a separator, alkali electrolyte, positive electrode, and negative electrode made of hydrogen storage alloy of formula: $\text{LaNi}_x\text{Co}_y\text{M}_z$ (where M is at least one of Al, Sn, Mg, Fe, Mo, TA, V, Cr, Cu, Mn, and Nb, x is above 1.5 and below 4, Z = 0-1 is above 3 and below 5.5, x + y + z) is above 4 and below 5.5.

USE/ADVANTAGE - The alloy is capable of occlusion and release of hydrogen electrochemically. In (1), oxygen generated at the positive electrode repeatedly reacts with hydrogen in the negative electrode at the surface to convert the gas to water, so that internal pressure does not increase greatly. (1) has excellent discharging charging cycle life, and high reliability.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: CLOSE ALKALI STORAGE BATTERY NEGATIVE ELECTRODE COMPRISE ALLOY CONTAIN LANTHANUM NICKEL COBALT

DERWENT-CLASS: L03 M26 X16

CPI-CODES: L03-E01B8; M26-B08; M26-B08C; M26-B08N; M26-B08X;

EPI-CODES: X16-E01;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-012845

Non-CPI Secondary Accession Numbers: N1986-022392

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